SOUTHERN IEXTILE BULLETI

VOL. III

CHARLOTTE, N. C., JULY 11, 1912

NUMBER 19

Re-Organization of Old Mills

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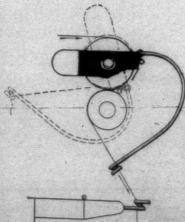
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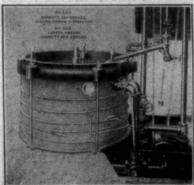
Southern Cotton Mills

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SOUTHERN AGENT, O. A. ROBBINS, - - CHARLOTTE, N. C.

SOUTHERN EXTILE BULLET

VOL. 3

CHARLOTTE, N. C., JULY 11, 1912

NUMBER 19

Fine and Fancy Weaving

W. A. Black before Southern Textile Association

est just now, and especially among the young men, there having been many of our mills changed over from coarse to fine and fancy work in the last few years. There is now being manufactured in and around the city of Greenville, S. C., damasks, lenos, Indian lawns and light dimities that, I am told, compare favorably with any goods, of its kind, made in the United States to day; and while fancy weaving, with us, is in its infancy, its progress depends on us, as men, who have direct charge of the machinery in applying ourselves close to duty and in the training of the help to use the uttermost care with the roving and yarn at each and every process.

In the manufacturing of fine and fancy cloths, there is nothing more important than a good clean, even round yarn, breaking at least up to standard, carefully spooled and warped with as few knots and slubs as pos-In preparing warp yarn for the slasher, section beams should be made up in even numbers; that is 4-6, or eight, never using 5, 7 or 9, as they do not split well on the slasher. For instance: suppose you make a set of warps on seven beams of 400 ends each—2,800 ends. The first and large lease rod is or should be in the centre of the yarn, but in this case, we would have 1,600 ends on one side of the rod while on the other side, we would have only 1,200 ends, which will cause breaking of the yarn and many loose ends in the warps.

SLASHING.

The slashing of warp yarn for the weave room is something that demands our careful attention, for it is here that we can spoil both the feel and uppearance of the goods and save the weave room from making many seconds; for I believe that at least 20 per cent of the seconds can be traced either directly or indirectly to the slasher room. Slashing to the weave room is about the same thing as carding is to the spinning room; bad carding means bad spinning, lots of waste and discontented help; while bad slashing does not only mean bad running work in the weave room but a low production, lots of waste, a high per cent of seconds and usually a high cost.

Among the defects in the process of slashing are the following: Poorly cooked starch; imperfect drying, by which the ends stick to one another on the beam; streaks of size on the yarn, caused by a defective roller cloth; rust spots from size kettle or pipes. If starch is not properly cooked, it will not pentrate the yarn without a finish which does not only affect the weaving, but mars the appearance of the cloth.

The secret of preparing size lies in the boiling. Every granule of the starch must be open or else the full sizing value is not secured. In my opinion, most of us use too heavy slasher cloth. As some of us know that there are mills that have changed from coarse to fine work in the last few years, but have not changed their slasher cloth, which is usually a 16 or 18 ounce. Experience has taught me that a 16 ounce does not work well on anything above thirties, and I prefer using a 14 ounce for thirties, as I think it cleans the yarn better. A good way to tell what your roller cloth is doing is to and on the shaded side of the machine and look around across the top of the small cylinder toward the light, and if you see size on the yarn, either in streaks or in spots, it indicates that your roller cloth is not doing its duty and should be attended to at once

A slasher cloth should be trimmed by a straight edge, then carded off so as to give it a taper in order to avoid streaks of hard size on the yarns every revolution of the roller, which, in process of weaving, will crack and scale

them to keep the warp from slipping on the truck, the points burying them- that might effect the quality of the cloth.

The subject of fine and fancy weaving in the South is one of much inter- selves into the warp, straining the yarns and often cutting it, though it may not be noticed until the weaver has woven some five or ten yards and then he doesn't know the cause of the loose ends. The best truck for hauling warps that I know of is this the old style four wheel truck with leather swings, where there is no metal or wood that comes in contact with the yarn.

LOOM FIXING.

I doubt seriously if there is any kind of trade or profession that is more abused than that of loom fixing; and yet, he is one of the most important hands in the room, for on him, more than any one else, depends the quality and quanity of the production. He should be a fair mechanic, as well as a weaver, and thoroughly understand how all parts of the loom is as-A good loom fixer will see to it that when a warp runs out that the loom is thoroughly cleaned, with all oil holes picked out and all parts freshly oiled before he puts on a new warp; and if on gause or leno, care should be taken to inspect every part to see that it is set up properly, and that there are no worn and loose parts that are liable to give way.

In putting a warp on the loom, too much stress cannot be put on the setting and regulating of the harness or shed. No matter what kind of goods you are on, for it is here, to a very large extent, depends the quality of the product. In regulating the shed, the fixer must be governed by the kind of weave he is dealing with, for obvious reasons: on some dobby weaves, we want as large a shed as we can get, while on lenos we want as small as it is possible to run with, on account of the additional strain put on the yarn by the crossing of the ends, which takes place between the reed and harness.

SELVAGE

There is nothing that affects the appearance of a finished piece of goods nore than the selvage. A cut of cloth may be woven perfectly and have a rough or frazzled selvage and it will spoil the whole piece.

There are several things that will cause a bad selvage. One is that the harness or selvage motion is not properly timed; another is caused by the temple not being properly set to the fell of the cloth, and when the lay is brought forward in beating up the filling, considerable strain is brought to ear upon the selvage, causing them to break

SKIPPING.

Probably one of the most ferquent troubles in fancy weaving is that of shipping or as some of us call it, overshots. This is the fallure of any one harness to lift when it should, and therefore the filling floats over the ends that are drawn in that harness where they should be under. This fault may be caused in many ways: in some cases the cylinder may have slipped out of position; in which case some of the pegs may not lift their fingers. A peg get bent slightly to one side and in such a manner that when the bar of the chain in which it is placed comes under the finger that it should, will pass between it and the adjacent finger. Again, this may be caused by a short peg in the chain, which will raise the finger but not quite enough for the hook to catch the knife. If from any cause one of the hooks should become bent, its action will be very uncertain. In any case when skipping occurs, the ends should be traced from the cloth to the harness in which the ends are drawn and by carefully watching the fingers and hooks you can usually locate the trouble.

OVERSEER.

An overseer of a fancy weave room should be a designer, or at least have HANDLING OF THE WARPS.

Some knowledge of its principles. Otherwise, he will always be at a disadone of the little things I fear we overlook, to a certain extent, is the van ge, not only among his fixers, but with his weavers. He should have handling of the warps between the slasher and weave room. There is a cushis cloth inspected by the second hand or some competent person at least tom among loom fixers and helpers of using a truck with shuttle points in once a day on the loom, noting any kinky filling, miss draws or anything

Tariff Board Report

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Detailed	Franka	100	A CONTRACTOR	212 42
Detanted	COSTS	or	Cotton	Cloth

Following are the detailed costs of each of the Tariff Board samples giving the cost for each mill for which the costs were calculated. The construction of the cloth is clearly described in each case, and the table is followed by a tabular presentation of the character of the weave and figuring of each sample, together with the kind of loom on which it is made and the number of harnesses used. This latter tabular presentation is merely the application to the samples of the detailed presentation of weaves and figures for all ordinary classes of goods presented in the glossary.

Table 212.—Actual manufacturing cost of 100 samples (showing mills in which costs were obtained).

Sample No. 1 Cotton Duck.

Grey Construction Width—Yards (per pound	293	1 No. 62 ½ in.—1.60 78 x 27
Yarns: Warp Filling		7—5.2 Per cent
	pound	of total
Labor cost (per pound)	grey \$0.008324	cost 4.49
Works expense and fixed charges (per pound)	.007772	4.19
Cotton cost (per pound)	.000803	.43
Total cost per pound of cloth	.185487 .115929	100.00

Sample No. 2. Cotton Duck.

Grey Construction				
	Mil	No. 62	Mill No	. 27
Width-Yards (per pound)				
Warp Threads x filling threads (per inch	78 x	7. 78	x 29
Yarns: Warp-Filling				
			Cost per	
	per pound	of total	pound	of tot.
	grey	cost	grey	cost
Labor cost (per pound)	\$0.010732	5.75	\$0.031169	13.18
Works exp. and fixed chrgs (per lb)		5.05	.019039	8.05
Cotton cost (per pound)	.168588	88.76	.179176	75.75
Depreciation cost (per pound)	.001027	.54	.007140	3.02
				-
Total cost per pound of cloth	.189930		.236524	
Cost per yard of cloth (grey	.094965		.118262	-

Sample No. 3. Osnaburg.

Grey construction:	Mil	l No. 56
Width-Yards (per pound)	3	6 in—2.50
Warp threads x filling threads (per inch		32 x 30
Yarns: Warp-Filling		8.5-6
	Cost per	Per cent
	pound	of total
	grey	cost
Labor cost (per pound)	\$0.029481	14.59
Works exp. and fix. charges (per lb)	018608	
Cotton cost (per pound)	.153823	76.13
Depreciation cost (per pound)	.000138	.07
Total cost per pound of cloth	.202050	100.00
Cost per yard of cloth (grey)	.080820	

Sample No. 4. Heavy Sheeting.

Grey construction:		Mill No	o. 62 Mill	No. 11
Grey construction.				
Width-Yards (per pound		30 in.—3	75 30 in	3.60
Warp threads x filling threads (per inch	18 x 7	5 48	x 46
Yarns: Warp-Filling		12-1	7.3 13-	-14
	Cost	Per ct.	Cost per	P. ct.
	per pound	of total		
	grey	cost	grey	cost
Labor cost (per pound)	\$0.024475	11.37	80.026706	
Works exp. and fix. chrgs (per lb.)	.020112	9.34	.017365	8.08
Cotton cost (per pound)	.168588	78.27	.164825	76.72
Depreciation cost (per pound)	.002207	1.02	.005949	2.77
Total cost per pound of cloth	.215392	100.00	.214845	100.00
Cost per yard of cloth (grey)	.057438	november and a factor	.059679	

Sample No. 8. Canton Flannel.

Grey construction:						No. 26
Width-Yards (per pound)		 			30 in-	-2.50
Warp thrds x fill thrds (per in.)					68x	47
Yarns: Warp-Filling						10
					lost per	Per cent
					pound	of total
					(grey)	cost
Labor cost (per pound)				8	80.023105	11.28
Works exp. and fix. charges (per lb)					.019475	9.51
Cotton cost (per pound)					.159658	
Depreciation cost (per pound)	**				.002533	1.24
Total cost per pound of cloth					.204771	100.00
Cost per yard of cloth (grey)		 -	100		.081908	

Sample No. 9. Cheesecloth or Bunting.

Grey construction: Width—Yards (per pound) Warp thrds x fill thrds (per in.) Yarns: Warp—Filling					25 in 40x	
				(Cost per pound (grev)	Per cent of total cost
Labor cost (per pound)						
Works exp. and fix. charges (per lb)	 * 7				.051801	16.90
Cotton cost (per pound)					.175394	57.23
Depreciation cost (per pound)		**			.011648	3.80
Total cost per pound of cloth		* *		• •	.306490	100.00
Cost per yard of cloth (grey)					.021007	

Sample No. 13. Shirting.

Grey Construction: Width—Yards (per pound) Warp thrds x fill'g thrds (per in.) Yarns: Warp—Filling	Mill No. 53 40 in—3.20 83 x 92 28—33
	Cost per. P. ct
	pound of total (grey) cost
Labor cost (per pound)	\$0.078389 24.33
Works exp. and fix. chrgs (per lb)	056288 17.47
Cotton cost (per pound)	185063 57.45
Depreciation cost (per pound)	
Total cost per pound of cloth	322162 100.00

Sample No. 16 English Long Cloth

Grey Construction:		Mill 1	No. 1
Width—Yards (per pound)	** * *	39 in.—	-5.00
Warp thrds x fill'g thrds (per m.)		80 x	80
Yarns: Warp-Filling		34	51
		Cost per	P. et
		pound	of 'total
		(grey)	cost
Labor cost (per pound)		.\$.084464	22.32
works exp. and fix, chrgs (per lb)		054535	14.41
Cotton cost (per pound)		220678	58.33
Depreciation cost (per pound)		.018700	4.94
Total cost per pound of cloth		.378377	100:00
Cost per yard of cloth (grey)		075675	

Sample No. 17. Nainsook

Grey Construction: Width—Yards (per pound) Warp thrds x fill'g thrds (per in.) Yarns: Warp—Filling	76 v 1	ed) 50 80
	Cont per	
	pound	
Labor cost (per pound)	(grey)	cost
Works exp. and fix. chrgs (per lb)	091322	20,56
Cotton cost (per pound)	2/10068	56.22
Depreciation cost (per pound)	021206	4.77
Total cost per pound of cloth	444609	100.00
Cost per yard of cloth (grey)	052307	100.00

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Width of Card.

tion at the present time than any other width, which, to a certain extent, proves that the advantages of such a width card are recognized by the production, and that this incard sliver is maintained on the 45inch cards as on the 40-inch card. cleaner sliver is produced, because the sheet of lap can be made correspondingly tighter than that of the of lap and wider the card, the better opportunity is given the licker teeth to strike out the foreign mat-ter from the sheet. This must be admitted, as it is agreed by all prac-

against this card, because we find claim that the 45-inch card gives that where the 40-inch card is used, a great deal more trouble, and for inch card the year around. The chief argument seems to be most strippers carry two laps at this reason favors the 40-inch card. On the other hand, when centered about the 40 and 45 inch one time, which proves that the So, as we have stated above, the inch card is used with short stock card. There is, however, a point laps on the wide cards can be car- variation of opinion pertaining to the trouble and loss of waste decard. There is, however, a point laps on the wide cards can be car-variation of opinion pertaining to the which may be urged in favor of the ried easily by any ordinary strip—the different widths of cards is stroy certain advantages we have 40-inch cards, and that is, that there per. Again, some claim that the precisely the same as the settings. pointed out. So, then, the 45-inch and that is, that there per. Again, some claim that the precisely the same as the settings. After carefully examining every card should be used in mills where inder. This is another poor argumost mill men. The chief argu- ment, because the tops on the wide ing working area is increased. So, silver, such as required in ments in favor of the 45-inch cards cards could be constructed in pro- then, the efficiency of the 45-inch goods mill, but long drafts are necare that the carding surface is in- portion by strengthening their cross- card is one-eighth greater than the essary when long stock is used, in the surface section by the builders if this was 40-inch card. Compare the differ- order to strengthen out the fibres found to be true. We have recently creased production is obtained from made an investigation in mills where a smaller floor space. Again, it is both the 40 and 45 inch cards are that is, the quality of the stock of claimed that if the same weight used, and we are told that if there governs the roll speed on all frames nal. is any more deflection of the tops of the 45-inch cards it is too slight to be noticed.

There is only one way to solve a respondingly fighter than that of the problem like the above in order difference in width. The above is to arrive at the right conclusion, and true, because the lighter the sheet that is to take every item apart and examine it separately. Just to the fibres are too short to aid one say that certain setting gives good another from the extreme ends of results counts for little, unless the the doffer comb to the trumpet, and

it must be admitted that the cardence in the two cards with that of the roll speed on a spinning frame; where twist is inserted. and the same can be said of the difference in the width of cards—the stock.

increased production over the 38-

On the other hand, when the 45tops or flats, owing to the increas— After carefully examining every card should be used in mills where ed length, will deflect, and that a item, the formula which follows is long stock is used—the goods mills true setting of the flats is impos—given. Conceding to the 45-inch card Of course, it may be pointed out sible at every point from the cyl- the advantages already pointed out, that a longer draft is necessary to reduce such a wide lap to a light hat of properly, a feature found in Eng-frame; land and France in their principle stock of carding.—Canadian Textile Jour-

Editor's Circulation.

Run one-inch cotton or less An editor was dying they thought through a 45-inch card, and you His friends—the few he had were will have trouble from the web around his bed weeping. Not so continually sagging, simply because much about his dying but how his much about his dying, but how his family was to live. The doctor tipthe doffer comb to the trumpet, and toed in. He felt his pulse. He put ter from the sheet. This must be action that such a setting will give so they separate at this point and his head to the editor's heart—or admitted, as it is agreed by all practure the fibres can be examined. This cause gradually the separation of tical carders to a man that the same can be said of the information other fibres more central in the smaller the tufts of cotton the more received from carders who are us. easily the foreign matter can be ing both the 40 and 45-inch cards. is continually breaking. So this is and in a low, professional tone, said:

You may find one carder who is why the 40-inch card is adopted; "Poor man. He will soon be dead.

Another point that is claimed for using both types who will tell you because it can run all kinds of stock. His circulation is all gone." The the wide card is that a stripper can that the 45-inch card is superior to better advartage.

dying editor jumped up and yelled:

take care of as many cards, which, the 40-inch, while, on the other. We have, of course, a certain "You are a light. We have the large of course, reduces the card." take care of as many cards, which, the 40-inch, while, on the other days age.

We have, of course, a certain "You are a liar. We have the largest decirculation in the county." The claim is made by many writusing both types who admits all the cards, especially in the summer est circulation in the county." The ers that the lap on the wide card adantages we have pointed out months, but the sagging is not great doctor took what is called "pellagra" is too heavy is a poor argument above, but at the same time will enough to destroy the benefit of the and has not been heard of since.—Ex.

The Annual Cone Picnic

their families by the Cone family, the owners of the mills. The affair proved as great or a greater success

and time after time the hungry a special tent was provided at a comfortable distance from the main tent and there they were provided with all the good things to eat and cozy places to rest.

A special table near the main was placed for Caesar Cone and several invited friends and there the same rations as were served the others were served him and his guests. Gen. Julian S. Carr of Durham was one of the guests of Mr. Cone and be-

stand was filled by 11 o clock was Mr. Taft or Mr. Wilson will be program of speech-making was Mr. Taft or Mr. Wilson will be ready when, immediately following harm. This country is going to be ready when, immediately following harm. This country is going to be ready when, immediately following were safe no matter which one is elected." stand was filled by 11 o'clock and the wedded in the presence of the great gathering.

The events of the day were ushered in by the introduction of Caesar Proximity Cone, president of Manufacturing Company.

White Oak Park, Greensboro, N. Holt was master of ceremonies. Mr. C., was the scene of the eighth an- Cone said that just one year ago nual Independence Day picnic of the he was awfully homesick; that he Proximity, Revolution and White was far, far away—in a strange land Oak mills tended the employees and —in Belgium at Ostend—and that he was thinking of his home land; of the picnic at White Oak; of his friends here and of Old Glory. "I went all over the place," he said, "trying to find a flag—an emblem this year than ever before.

The number that enjoyed the "trying to find a flag—an emblem bounteous spread provided by the of the land of the free and the home mill management was estimated at of the brave. Finally I found one, hetween 8,000 and 10,000. The big a little love affair but it did look tent under which the dinner was good. I gave it to my little boy. We served was besieged from every side stuck it up in the sand on the beach and after a while a half-mile down crowds would push to the front to we saw another pile of land and on load up and again retire. For the it was a little flag—the Stars and mothers and their infants in arms Stripes. It made me feel mighty a special tent was provided at a glad but awfully homesick."

Mr. Cone referring to industrial conditions said: "Things are in betshape than they were year. Then we had to start on short Then the demand would not begin to take up the small produc-tion turned out. Conditions now are entirely different. There is a fair de mand for goods, and while the world is a little quiet at the present moof the guests of Mr. Cone and be- ment I hope the market will conspoke his keen pleasure and satis- tinue full."Mr. Cone only slightly tures at the mill aside from the nominated their candidates for dinner and the prize contests. One President. "You folks are good was a double wedding. The speaker's enough men to make a choice" I stand was filled by 11 c'clock and it. "You needn't fear that either

Following Mr. Cone's address and a short talk by Mr. E. Sternberger, president of the Revolution mills, \$325 in prizes were announced given in each of the mill village to people keeping the best premises.

Pienie at LaGrange Mills.

Cotton Condition and Acreage Short.

Elm City and Unity Spinning Mills, of LaGrange, Ga., gave their employ-ees a holiday and a big barbecue at Elm City Park on July 4th. In addition to the employees of the mills and their families there were a number of guests from the city and the surrounding country, and all voted it one of the most enjoyable occasions of the kind that they had ever attended. About 2,000 were present.

The weather was fine and the dinner was excellent.

The young folks enjoyed themselves with various games and amusements during the day. An old fashioned square dance was in continuous progress in the pavillion and in the afternoon there was a match States follow game of baseball between the boys State. of the Elm City team and the Sword and Shield.

The employees of the mills were warm in their praises of Messrs. Truitt, Callaway, Dallis, the superintendents, Messrs. Turner, Grimes and Austin, who with the office men and overseers of departments took such effective interest in making the day enjoyable to every one.

Washington, July 3,-The Department of Agriculture's preliminary estimate of the acreage planted to cotton in the United States this year, which by act of Congress was de ferred from June to this month and hereafter will be announced annually in July, was made public at noon today and shows the area planted to be 34,097,000 acres, compared with 33,681,000 acres indicated by the Bureau of Statistics' revised estimate of last year's planted area.

The condition of the growing crop on June 25 was 80.4 per cent of a normal condition, as compared with 88.2 per cent June 25 last year and 80.7 per cent the average condition for the past ten years on June 25.

Details of the area planted, by

State.	1911	1912
Virginia	44,000	43,000
North Carolina	1,657,000	1,558,000
South Carolina	2,800,000	2,604,000
Georgia	5,579,000	5,021,000
Florida	318,000	283,000
Alabama	4,043,000	3,720,000
Mississippi	3,426,000	3,046,000
Louisiana	1,118,000	1,062,000
Texas	11,150,000	10,927,000
Arkenger	9 470 000	9 100 000

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Sulfide, Caustic Soda.

All kinds Sizing and Finishing Materials, Potato Starch, Dextrine, etc.

Tennessee	850,000	799,000
Missouri	132,000	110,000
Oklahoma	3,081,000	2,711,000
California	13,000	12,000

Details of the condition on June by States, with comparisons,

		T	en-year
State.	1912.	1911.	average
Virginia	.87	.98	.84
North Carolina.	.83	.89	.82
South Carolina.	.79	.84	.81
Georgia	.72	.94	.83
Florida		.96	.87
Alabama	.76	.93	.80
Mississippi	.74	.87	.80
Louisiana	.74	.89	.79
Texas	.89	.85	.80
Arkansas	.77	.89	.81
Tennessee	.76	.87	.84
Missouri	.75	.90	.84
Oklahoma	.82	.87	.81
California	.98	1.00	.77
	1		

Department states that the combin- miles of this point the engineering ed value of the textile manufactures, including cotion goods, hotures, including cotton goods, ho- electric horse power, of which siery and knit goods, and woolen above 200,000 horsepower is now worsted goods, amounted to \$52,141,-000 or 25.7 per cent of the total value of all manufactured products of the state in 1909. The textile industries of Georgia are confined almost entirely to the cotton goods branch, which was first in importance among the individual indus-tries of the state, with a value of products in 1909 almost double that of the lumber and timber industry, which ranked next. For a number of years Georgia has produced next to the largest cotton crop of any state, but it ranks only fifth among the states in the value of its cotton manufactures. It is interesting to note that while the percentage of increase in value of products from 1899 to 1904 was greater than that in value added by manufacture, from 1904 to 1909 the increase in the value added by manufacture was the greater. This variation was due partly to the rise in the price of raw cotton during the earlier five-year period. Only one establishment included under this classification was reported as primarily engaged in the manufacture of cotton small

Closely allied to the cotton industry in this state is the manufacture of hosiery and knit goods, which are made almost entirely of cotton materials. Although the value of products of this industry is small when compared with that of the cotton goods industry in 1909, it increased 89 per cent from 1899 to 1904 and 39 per cent from 1904 to 1909.

Industrial Power in Cotton Belt.

to the last of the streams that flow into the Atlantic Ocean, there are fully a score of these that have a length of from 100 to 300 miles between the mountains and the sea. This feature of the map is the foundation of the new industrial era of the South Atlantic States.

"In point of development the cot-said Mrs. Smith to Mrs. Jones. in textile industries of North and "Oh, no, he doesn't," said Mrs. outh Carolina comprises the Jones. "You ought to hear him ton textile industries of North and

turing unit. And the center and source of this organization is the hydro-electric power which springs from these upland streams and is distributed over an area of several hundred miles. There are 300 miles of 100,000 volt pole and tower lines in operation driving the largest cotton factories in the country, and driving some of the biggest of them at a power cost low enough pay them to let their own individual power plant lie idle.

"This utilization of power is to the southeastern cotton belt what the coal deposits of Pennsylvania, West Virginia, or the central West are to their respective industries, except that the current is cheaper than the coal. But for this new factor of power it would have been impossible for the past 15 years to have reached a development in which within a hundred miles of Textile Manufacturing in Georgia. Charlotte there are nearly 500 cotton mills, representing a capital of A recent bulletin of the Census \$175,000,000. Within a radius of 60 estimate is that there are 1,000,000 developed.

"Besides the industrial revolution which this power supply has brought about, this portion of the country is on the eve of an equally significiant development, in the form of interurban traction lines. The entire Piedmont in the Carolinas is studded with towns of enough commercial importance to command the attention of traveling salesmen. conversation with the manager of the interurban lines radiating from Charlotte it was stated that the making of two towns a day formerly considered good work. But interurbans give an hourly schedule and enable them to do three or four times the business done under the older conditions. That's but an instance, though a significant one.

"Another result is the better dis-tribution of this labor supply. Still another is the ability of rural and town toilers to break the monotony of their conditions by travel and communication at more frequent intervals, which makes it strongly for the comfort and contentment of the people in general.

"Yet these are only beginning There are towns in this region of power supply whose annual production of furniture places them second to Grand Rapids, Mich., in the value of output. Other places are numerous in which this and other lines of industry flourish. That attention from the investment standpoint is being directed to the region is shown by the fact that every few weeks marks the advent of Northern or Western capitalists, to take over some particular traction prop-"Counting from the Potomac south erty as part of a new public service the last of the streams that flow or hydro-electric project."—Wall Street Journal.

Not Very.

"I so admire a man who, like your

South Carolina comprises the Jones. "You ought to hear him South's most noteworthy manufac- when he loses a collar-button."—Ex.

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factory located in any other part of the country.

If you contemplate establishing an industry, we would be pleased to give further and full information regarding location along the Southern Railway System.

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Land and Industrial Agent Southern Railway

Room I

WASHINGTON, D. C.

Willows for Cotton and Cotton Waste

ever the "willow" has become a which may still do very good work, advantage of kee machine which is chiefly used for Each tooth projects about 4 inches side the machine. pings, fly, strips, etc., and accord- the body of the cylinder, and the tempered steel bars nowadays, beingly it has assumed special features quality of the material of these teeth cause then a much greater number which it is our intention to describe.

Taking first the ordinary willow for cotton waste, we find that this type is fed in various ways, whilst it delivers the material almost invariably by means of a short crosslattice placed near the top of the machine over the feed end. This has led to the machine being frequently called the "overhead wil-low." The proper name for this machine is, however, "self-acting grid and delivery willow"-i. e., a

cylinder, which is mounted on a protected by means of strong plate bars in their proper places they are substantial shaft. The movement is strips, which are screwed on.

fitted into bends or circles which in such a direction that the material The cover of the willow is formed have slots punched in, into which cotton. The cylinder ends are mounted on the strong centre shaft, and they have a series of pockets at their ends which take strong birch To secure these birch lags well they are protected by an iron bar on the nut side. There are six birch lags in all, each of which has To obtain good cleaning and a The old way of feeding was by twelve teeth in a row. These teeth high production the cylinder must hand, but this is now almost inare oval-shaped, and they are set alternately so as to present the greatest possible number of points of attack on the material. To insuch a way as to be flung somewhat said to be more liable to burst, sideways, and thus ensure its being a willow of 56 inches cylinder wi ondly, the teeth may be set in the other direction after they have become worn, which takes place after a few years' work. Fig. 2 shows a

waste of all kinds, scutcher drop- above the sheet-iron plate covering tooth possible.

0 0

somewhat different from some ma- ed, and containing three strong cast- made in two sections, each section chines, including willows for pure iron bars, each of which contains a containing ordinarily thirty-six bars row of teeth against which the maper inch. An important point is the terial is flung during the cleaning necessity of having the grids fitted process. These teeth must not pro- in such a way that they can be taken ject between the teeth in the cylinder, but they are set so as to prevent any chance of curling the material.

there would be a chance of the cylcrease the intensity of working, the in two ways—by means of wrought-teeth are set so as to point in alter-iron hoops and by means of cast-nate directions, Fig. 1, the revolu-iron rings. It is claimed that the a willow of 56 inches cylinder width the old style of lubrication.

The framing in a modern willow

HESE machines were origin- new tooth; Fig. 3, one which has is of course invariably east iron. To ly of a scroll of strong sheet steel ally identical with the fore- become worn. It is clear that teeth prevent air currents interfering mounted on a wrought-iron tube runners of cur modern cot- with rounded noses cannot do the with the work of the machine, the This scroll turns in a steel trough

is also important. A good tooth is of cleaning edges is possible, whilst a cast-iron tooth with wronght-iron maintaining the same spacing for shank cast in. This shank is serew- dirt to fall through. These steel ed, and there is obviously no better bars may be of various thicknesses, method of fastening a cast-iron very fine bers being used for fine pitch; but for medium and coarse

willow with self-acting feed and grid motions, and with self-acting plates, one semi-circular plate for used. The fine pitch is used for delivery motions.

This machine has a fairly large trouble the edges of these plates are cessive loss of fibre. To keep the substantial shaft. The movement is strips, which are screwed on.

fitted into bends or circles which in such a direction that the material The cover of the willow is formed have slots punched in, into which gets a downward blow, which is by a sheet-iron plate, suitably curv- the bars fit. The grid is usually out in a few minutes and replaced by another grid for other qualities of waste or for the purposes of re-

run at a fairly high speed; hence variably replaced by a special tray and tray motion, the tray being coninder bursting if it were not well trolled by a steel chain. The inner kept together. This may be done end of the tray is hinged to the front part of the grid, which in turn is hinged near the bottom of the cylinder. The back part of the grid tions being in the direction of the strong cast-iron rings have an ad- does not move during the working arrow. This has two advantages, vantage over the wrought-iron of the machine. There are two arrow. This has two advantages, vantage over the wrought-iron of the machine. The arrow the firstly, the material is struck in hoops, inasmuch as the hooping is large sheet-iron plates under the firstly, the flux somewhat said to be more liable to burst. In grids, which allow the dirt to settle over the conveyer scroll in the midconstantly redistributed over the four extra-strong cast-iron rings dle of the machine. These plates whole surface of the machine; sec- would be used. The cylinder bear- must be arranged so that they can ings should have ring lubrication, be easily taken out, and for that which is much more efficient than reason their top edges should also have a beaded edge.

The conveyer itself consists chief-

ton openers, and some types work as effectually us teeth with frame sides are well closed up by of very strong section, the ends of not only show still a great similar—sharp edges, and a sharp edge is means of sheet-iron plates fitting which are of cast iron. This trough ity, but actually are almost the same practically obtained again by turn—close up to the main shaft of the is of one single piece, so as to pre-in principle, as we shall see further ing the tooth. In Fig. 3 A shows cylinder, Besides the prevention of sent as little obstruction as possible on. At the present moment, how—the blunt edge, but B is an edge awkward air currents, this has the to the waste during its transport. ever the "willow" has become a which may still do very good work, advantage of keeping the dust in—The waste is conveyed into a kind of box outside the machine, over The grid is made of hardened and which the so-called dirt elevator is fixed in an inclined position. The elevator consists of a strong sailcloth belt which runs over fluted pulleys without flanges, straight running being ensured by means of suitable tension arrangements. The cotton belt carries a number of steel buckets which are stamped from a single piece. The whole is enclosed in a sheet-steel casing. This elevator is suitably driven, and takes the waste out of the above-mentioned box to convey it into a bag by means of the steel buckets. The bag is hung up on hooks near the top of the elevator.

To aid in cleaning, and to keep the room free of dust, a fan is fixed at the top of the machine, which draws the dust away from under the grids. To regulato the fan draught a slide damper is applied.

As we have mentioned, the clean material is delivered from above by means of a cross lattice. This delivery lattice is a canvas belt running on tin rollers with cast-iron ends, the tin rollers supporting the belt on the whole width. Straight running is ensured by means of tension screws for the belt. It should pairing. be noted that a speed above 350 revs. The old way of feeding was by is not to be recommended, as too much waste is made at a higher speed.

The timing motion is a very interesting feature of this machine. The writer is aware that this motion has often been shown, but the illustrations have always been of a rather complicated nature, and it will therefore be worth while to give a plain sketch (Fig. 4 showing only the outline of the various motions without any superfluous matter. understand the motion thoroughly it must above all be understood that there are two shafts which are driva positive speed-i. e., shaft B and the shaft N, the latter

(Continued on Page 18)

W. H. BIGELOW

AGENTS FOR

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DISCUSSIONS BY PRACTICAL MEN

Twister Travelers.

and thought they would be of interest to your readers.

They are for two-ply yarns on ring

of 1 3-4 to 2 men diameter.
30's and 32's require7's or 8's
34's and 36's require6's or 7's
38's and 40's requireb's or o's
42's and 44's require4's or 5's
46's and 48's require3's or 4's
50's and 52's require2's or 3's
54's and 56's require1's or 2's
58's and 60's require1-0 or 1's
62's and 64's require2-0 or 1-0
66's and 68's require3-0 or 2-6
70's and 72's require7-0 or 3-0
74's and 76's require5-0 or 4-0
78's and 80's require6-0 or 5-6
82's and 84's require7-0 or 6-6
86's and 88's require8-0 or 7-6
90's and 92's require9-0 or 8-0
94's and 96's require10-0 or 9-6
98's and 100's require11-0 or 10-0
102's and 104's require 12-0 or 11-0
106's and 108's require13-0 or 12-0
110's and 112's require14-0 or 13-0
114's and 116's require15-0 or 14-0
118's and 102's require16-0 or 15-0
D C

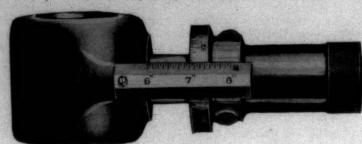
Precision Guage for Setting Rollers.

A recent invention which has been put on the market in England is bad carding results.
the "precision guage" shown here
which is designed to eliminate guessAeroplane work in the setting of the moving parts of various textile machines. The "precision guage" is the out-come of difficulties caused by the inaccurate setting of the brackets for supporting the grinding rollers; and stripping, cleaning, and brushing brushes on cards. Exactly what takes place during the actual pro-cess of carding is ever a problem of absorbing interest, and whatever the cloth: carder's ideas may be as to how deep the stripping and grinding of the facrics have been suggested for airilleting should go, there is no craft work as being difficult to tear,
doubt whatever that his intentions but they cannot be successfully
are often frustrated by inaccurate proofed for use as balloon fabrics,
setting of the stands for the stripand other means have been adopted ping and grinding rollers. The in-strument here illustrated affords a means of obiating all guesswork, and provides for the absolutely acscrew free to move in a fixed nut so as to be adapted to the radius of circles betwen 6 and 8in. diameter.

The rule is indexed on one edge, and each division represents 1-10in. diameter; on the other edge each division represents 1-16in. diameter. The thimble barrel is divided into 100 divisions, each of which represents 1-10000in, diameter. The rule is also marked 6, 7, and 8in, diameter. When setting grinding-roller brackets, the diameter of the grinding roller must first be ascertained and the instrument set accordingly, and locked by means of the small screw provided for the purpose. The brackets may then be adjusted at

makers affirm that by the use of yarn, the latter will be the more difthis instrument it is. possible to fleult to tear, as tearing simply congrind cylinders, doffers, and flats sists of breaking one or two threads absolutely parallel, thus improving at a time.

each end until the instrument just to prevent tearing, or at least to touches the card clothing. When make tearing difficult. With regard setting the brush brackets the dia- to resistance to tearing, if we comrecently noticed the following meter of the brush must first be pare two cloths of the same weight, list of travelers given for twisters determined, and the gauge set to one being a closely woven cloth made correspond, less the depth the brush from very fine yarn, and the other required to enter the clothing. The an open cloth made from coarse



the quality of the carding to a very appreciable extent. Also the life of the card clothing is prolonged, and although we do not need to enlarge upon this at this stage, it very often happens that more is ground off the other layer. wires than is required, thus need-lessly shortening the life of the clothing. With accurate setting of the grinding roller this would be avoided. By the use of this instrument it is also possible to avoid uneven grinding, with its attendants

Aeroplane Cloth.

Editor:

The problem of obtaining a suitable fabric for aeroplanes is one that is taxing the skill of the best men in the industry, both in this country and abroad.

The following is an interesting extract from a foreign journal relative to the manufacture of aeroplane

"Leno and other specially woven

"The most successful method has been the use of two-ply fabric stuck together with a layer of rubber, one layer having its threads inclined at 45 degrees to the threads of the

"In making this diagonally doubled fabric (as it is termed), one layer of cloth is made up of small pieces of rhomboidal shape. This is rather a disadvantage, owing to the larger number of joins, which are sometimes a source of weakness

"It may be noted here that a meth-od of overcoming this defect would be to weave the weft of each ply at an angle less than 90 degrees (about 70 degrees for preference), and then to double two plies to-gether with the wefts of the two cloths arranged to cross. We should then have a cloth with the threads in three directions instead of two, and a tear would always meet with Crosby Dallas Warp. & Speol. threads inclined to its direction. To design a loom to weave with the reft at 70 degrees to the warp will, I admit, be difficult, but it can be done, and there is every reason to believe that some firm could make a commercial success of it."

Airship.

Names Wanted.

We wish to get a more complete list of the superintendents and curate setting of the brackets even overseers. Please clip out this blank and mail it to us with the names to 1-1000m. It takes the form of at your mill. at your mill.

Superintenden	ı
Overseer of Cardin	g
Overseer of Spinning	g
Overseer of Weavin	g
Overseer of Cloth Room	n
	c

Superintendents and Overseers

Jennings Cotton Mills,

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Clover Cotton Mfg. Co.,

Clover, S. C.

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W. H. Hagans Carder	No. 2.
W. M. BarrettSpinner	No. 1.
S. J. MolhuesSpinner	No. 2
H. B. Maxwell Master Med	

Maplecroft Mills.

Liberty, S. C.

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M. D. Leslie	Weaver
Jno. H. Hudgens	Spinner
M. D. Leslie	Cloth Room
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W. B. Glenn.... .Cloth Room

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J. E.	BoyntonSpinner
	. Rodgers
	. Tonnal Cloth Room
R T.	Rentley Master Machanie

Lockhart Mills.

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J.	E.	LattimoreSpinner
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K.	C.	McCollumCloth Room
		. Brasington Master Mechanic

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Bamberg, S. C.

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			Carder
J.	A.	Sanders	Spinner
J.	P.	McCraw	
H.	M	Barry .	
(Paris)	HOLL	Men A Minto	n Magton Mach

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> > D. H. HILL, Jr. Associate Editor

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Address all communications and make all drafts, checks and money of 1912 will be somewhere between onable. orders payable to the Clark Publishing Company, Charlotte, N. C.

Entered as second class matter March 2nd, 1911; at the post office at Charlotte, N. C., under the Act of March 3d, 1879.

THURSDAY, JULY 11

Directory Data.

Crop Prospects.

We are working upon the August ninety per cent of the mills.

return them at once.

Tariff Board Expires.

The Tariff Board went out of refusal of Congress to continue the necessary appropriation. They have done their work well and have left behind them the most complete and accurate collection of cotton manucompiled.

While they have been subject to many attacks by those who are sibility of this season. interested in discrediting their tion of data.

ist edition of Clark's Directory of gress the estimate of the De- and the yield per acre for the past other Southern mills. Southern Cotton Mills and have al- partment of Agriculture relative to ten years has been less than .40 of ready received the data from about the cotton acreage of 1912 did not a bale which would in accordance appear in June but was issued on with the above table indicate a We wish to make a special request July 3rd. This estimate placed the crop of less than 13,700,000. of those, which have not reported, to 1912 acreage at 34,100,000 as against

business on July 1st because of the fifteen years. That yield was due primarily to the unusual season and to the large amount of fertilizer which was used.

Could we obtain the same yield 100,000 acres planted. facturing costs that have ever been per acre for 1912 the crop would be 15,100,000 bales which can safely be considered to be the maximum pos-

tacks has been directed at imma- as last year for we have had a very terial and unimportant facts in con- late season and on account of the vailed the farmers have not had Senate.

funds to buy as much fertilizer as they used in 1911.

During the past twelve years the perintendent of the these limits.

Having 34,100,000 acres planted it is interesting to study the size of the crop that would be produced on that acreage by the different yields

er acre.	
Bales	Total
Per Acre	Bales -
.33	 11,250,000
34	
.35	
.36	12,275,000
.37	12,615,000
.38	12,960,000
39	
.40	
.41	
.42	
.43	
.44	
.45	
.46	
	The second state of the second

11,250,000 and 15,785,000 with little probability of its reaching either

The condition of the crop on June 25 was 80.4 per cent of a normal condition, as compared with 88.2 per cent June 25 last year and 80.7 per cent average condition for the past ten years on June 25.

The condition is therefore almost Under the recent order of Con- the same as the ten year average in the Highland Park Mfg. Co., and

> Experience has shown, however. dition report and only weight to be

as working a crop estimate at this

Chemical Tariff Bill Defeated.

The tariff bill known as the We can see no reason however, placed on the free list of dyestuffs work, the force of all the at- to expect as large a yield per acre which are used in coloring cotton goods and which passed the lower

Won \$100 Prize.

Edward M. Henley, assistant su-erintendent of the Erwin Mills, yield per acre has varied from 33 Duke, N. C., has been awarded the to .46 of a bale and it is probable \$100 first prize by the Wool and that the yield per acre for this Cotton Reporter for the best pracseason will be somewhere between tical article contributed to a contest which they ran last year.

> The article by Mr. Henley was on "Warp Waste in a Cotton Mill."

Rates on Factory Waste.

A rate of 40 cents a hundred bounds on cotton factory sweepings and cotton waste from Lindale, Ga., to Paducah, Ky., has been held by the Interstate Commerce Commission to be unreasonable to the extent that it exceeded 32 cents.

The case was instituted by the Riverside Mills of Augusta, Ga., against various railroads operating in the South to obtain a determination not only of just rates, but of fair minimum weights of carload shipments.

The commission sustained the contention of the complainant in each instance, except upon the rate of \$1.89 from Augusta to Clifton, We therefore see that the crop Ariz, which was found to be reas-

Estate of J. E. Prior.

The estate of the late J. E. Prior, former head of the J. E. Prior department of Fredrick Vietor & Archelis, of New York, who died about 18 months ago, and whose will was admitted recently to probate, is appraised at about \$513,000.

Mr. Prior was largely interested

Child Labor in Georgia.

An agreement has been reached. it is said, whereby cotton mill interests of Georgia will not further fill in the blanks that we sent and 36,680,000 for last year which is a that the yield per acre or the size oppose the passage of the Alexander reduction of approximately 7 per of the crop does not follow the con- amendment to the child labor law. This amendment, which was set as The yield per acre for the 1911 crop attached to the report is that it in- special order for July 9, raises the was 44 of a bale which has only dieates that as large a yield per acre age at which children may be embeen exceeded twice within the last as last year can hardly be expected ployed in factories from 10 to 42 We do not wish to be considered years to 14 years. Under the present law, passed several years ago, season but do wish to call attention children under 12 years of age are to the range of possibilities with 34. prohibited from working in factories. One exception, however, is allowed in cases where a child is the sole support of a widowed or invalid mother. The Alexander amendment places the age limit at 14 "Chemical tariff revision bill" which years and makes no exceptions. Advocates of the bill state that the agreement effected with cotton mill representatives practically insures the passage of both the child labor nection with the methods of collec- low prices for cotton that have pre- house of congress was killed in the measure and the bill providing for compulsory education.

PERSONAL NEWS

Chas. Biggers, of Lindale, Ga., has accepted a position at Griffin, Ga.

F. L. Salmons, of Lindale, Ga., has accepted a position at Rome, Ga.

A. E. Davis has resigned as overseer of the cloth room at the Orangeburg (S. C.) Cotton Mills.

J. W. Herring, formerly of Mobile, River Mills, Danville, Va. Ala., is now overseer of twisting and spooling at the Athens (Ga.) Mfg. Co.

W. L. Jenkins has resigned as Mills, Marshall, N. C. overseer of carding at the Warren Mfg. Co., Warrenville, S. C.

W. H. Bigham has resigned as Co., Piedmont, Ala. master mechanic at the Eureka Mills, Chester, S. C.

W. E. Taylor of Duke, N. C., has accepted a position as loom fixer at Rosemary, N. C.

Robert Husky, from Enoree, S. C., is now second hand in carding at the Clinton (S. C.) Mill No. 2.

W. C. Kee has been promoted from second hand to overseer of spinning at the Fidelity Mill, Charlotte, N. C.

R. L. McGee, from North Charlotte, N. C., is now fixing looms at the Erwin Mills, Duke, N. C.

C. H. Hammond has accepted the position of overseer of carding at the Fidelity Mills, Charlotte, N. C.

E. C. Fleming has been promoted from assistant to superintendent of the Kosciusko (Miss.) Mills.

J. H. Gifford is now overseer of spinning at the Louisville (Ky.) Spinning Mills.

R. S. McGill is now manager and superintendent of the Fulton Cotton Mills, Athens, Ala.

W. H. Portner, of Alabama City, has been granted a patent on a self threading shuttle.

the Glenn-Lowry Mills, Whitemire, S. C.

W. H. Spratlin has resigned as superintendent of the Star Thread Mills, Athens, Ga.

A. A. Jolly has resigned as second hand in spinning at Dan River Mill No. 3, Danville, Va.

W. R. Strait has resigned as second hand in No. 3 weave room, Dan

Geo. H. Smith has resigned overseer of carding at the Capitola

M. Turk has been promoted to head book-keeper at the Coosa Mfg.

Geo. K. Tate has resigned as suerintendent of the New Century Mills, South Boston, Va.

J. P. Scott has resigned as maste. mechanic at the Athens (Ga.) Mfg. and is now machinist at the Aldora Mill, Barnesville, Ga.

W. Everett has resigned master mechanic at the Wylie Mill, Chester, S. C., and is now located at Dalton, Ga.

N. C. Martin has resigned as overseer of cloth room at Laurens, S. C., to accept a similar position at the Monaghan Mills, Greenville, S. C.

Co., has accepted the position of ent of the Star Thread Mills, Athmaster mechanic at the Eureka ens, Ga.

Mills, Chester, S. C.

P. F. Barnes, formerly, appearing the control of the Star Thread Mills, Athmaster mechanic at the Eureka ens, Ga.

Henderson, N. C., and accepted similar position at the Arista Mills, Winston-Salem, N. C.

Hosiery Mills, Columbus, Ga., has ger Mills, Columbus, Ga., and is fix-accepted the position of overseer of ing Jacquard looms at the Swift accepted the position of overseer of spinning at the Meritas Mills of the Mfg. Co., of the same place. same place.

CARDS SPINNING DRAWING FRAMES, COTTON MILL MACHINERY MASON MACHINE WORKS TAUNTON, MASS. EDWIN HOWARD, Southern Ager Charlotte. N. C. COMBERS MULES LAP MACHINES LOOMS.

G. D. Williams has been promoted to overseer of spinning at the Harriet Cotton Mills.

W. H. Hixon of Augusta, Ga., has accepted the position of overseer of spinning at the Enoree (S. C.) Mfg.

J. T. Honeycutt, overseer of carding and spinning at the Newton (N. C.) Cotton Mills, has resigned the spinning.

J. E. Shaw has been transferred from overseer of carding at Mill No. 2, to carder and spinner at Mill No. 1 of the Clinton (S. C.) Cotton Mills.

D. J. Knot has resigned as second hand in spinning at Bon Air, Ala. to accept a similar position at Thomson, Ga.

J. W. Roberts has resigned as superintendent of the Katrine Mfg. Co., Fork Shoals, S. C., which will be idle for the remainder of this year.

F. E. Blair, of Columbus, Ga., has J. W. Miller of American Machine accepted the position of superintend-

C. E. Rogers has resigned as over-tendent of the Fulton Bag and Cotseer of carding at the Harriet Mills, ton Mills, Atlanta, Ga., has accepted a similar position at the Echota Mills, Calhoun, Ga.

Robert Willis has resigned Harvey Carpenter of the Perkins overseer of weaving at the Hamburing Jacquard looms at

A. H. Thatcher has resigned W. W. Phillips has resigned as head book-keeper at the Coosa Mfg W. E. Smith has resigned as sec- section hand in spinning at the Dan Co., Piedmont, Ala., and will be second hand of spooling and warping at River Mills, Danville, Va., to become retary-treasurer of the mercerizing second hand in spinning at the plant, which the company will build Pilot Mills, Raleigh, N. C. at Ridgedale, Tenn.

L. B. Hines of Bessemer City, N C., has accepted the position overseer of cloth room at Siluria, Ala.

Will Taylor has been promoted to overseer of carding and spinning at the Jno. M. Stone Cotton Mills, Starkeville, Miss.

E. F. Anderson has been promoted from second hand to overseer carding at the Clinton (S. C.) Mill

Walter Robinson, of Lancaster, S C., is now running a section in spinning in Dan River Mill No. 3, Dan-ville, Va.

J. W. Sanders, of Rock Hill, S C., has accepted a position as section hand in spinning at Dan River Mill No. 3, Danville, Va.

Robert P. Dempster, of Knoxville, Tenn., has accepted the position of assistant designer at the Aberfoyle Mills, Chester, Pa.

Cárl T. Tourtellot of Providence, R. I., has accepted the position of assistant superintendent, at Hope Mills, N. C.

H. G. Broom has resigned as second hand in weaving at Lockhart, S C., to accept a similar position with the Dan River Mills, Danville, Va.

J. A. Campbell has resigned as overseer of spinning at Clinton (S. C.) Mill No. 1, and accepted a position with Mill No. 2 of the same company.

H. Lee Dearman has resigned as as carder and spinner at the Holt-Granite Mills, Haw River, to become superintendent of one of the mills at Burlington, N. C.

OVERFLOW PERSONALS PAGE 16

Machine

"An Immense Benefit to Any Mill"

VICTOR MANUFACTURING CO. **Executive Department**

May 24, 1912.

Mr. J. E. Cheesman, Empire Duplex Gin Co., 68 William St., New York City.

Replying to yours of the 16th inst
We are more than satisfied with the way the C. O. B. Machine is cleaning and preparing the stock, and feel that this machine is an immense benefit to any mill but especially to those mills that use staple cottons. but especially to those with personal regards, Very truly yours,
DAVID JENNINGS, Vice-Pres.

MANUFACTURED BY

EMPIRE DUPLEX GIN COMPANY, 68 William St., New York



MILL NEWS ITEMS OF INTEREST

Denison, Texas. The Denison Cotton Mills have added 2,000 spindles and 50 looms to their equipment.

Tampa, Fla.—A mattress factory to their plant and add 65 will be established here by A. R. and their present equipment. I. Addison, of Montgomery, Ala.

Mills have been granted a renewal tract for 1,250 kw. 600 volt turbine tion. of their charter for a period of outfit, 25 kilowatt 2-unit motor gentwenty years.

Newberry, S. C.—The Newberry Columbus, Ga.—G. A. Stafford & Cotton Mills of July 1st paid a semi-co. of New York, have placed on the annual dividend of 5 per cent on its market some new designs and colcapital stock of \$500,000.

Opelika, Ala.-The Opelika Cotton ufacturing Co. of Columbus. Mills have installed the Kinkead Apparatus for aligning and leveling shafting.

Augusta, Ga.—The Riverside Mills are considering the investment of about \$200,000 for enlargements and improvements to their plant.

Augusta, Ga. — The Sutherland Mfg. Co. recently discarded their mill spinning and installed 144 which are being operated on duck and osnaburgs.

Whitmire, N. C. - The Glenn-Lowry Manufacturing company, of semi-annual dividend of 3 1-2 per

Greenville, S. C.—The new weave shed being erected by the Carolina once at the cotton mill. Westervelt, presidenttreasurer, will be equipped with the American Moistening Co.'s system of humidifiers.

Columbus, Ga .- The Georgia Mfg. Co., Columbus, Georgia, has placed their order with the American Moistening Co. for a complete humidifying equipment.

Pickens, S. C.—The Pickens Cotton Mill has declared its usual semiannual dividend of three per cent. This company will add 6,000 spindles to their present equipment.

Lancaster, S. C .- The Lancaster Cotton Mills have declared a semiannual dividend on its common stock of 5 per cent, and a 3 1-2 per cent dividend on its preferred stock.

Beaumont, Texas .- B. Duets Furniture Company has ordered ma-chinery and will rebuild their mattress factory which was recently destroyed by fire.

Vass, N. C .- The Vass Cotton Mills dies and card room machinery which was purchased from the Whitin Machine Works.

Valdosta, Ga. — The Strickland Greenville, S. C. Cotton Mills will invest about \$10,— Co. has contributed \$300 towards putting Tarvia on the road leading to their property.

> Roanoke, Ala.-The W. A. Hand- dles. ley Manufacturing Company will build an addition, 100 feet in length, to their plant and add 65 looms to

Danville, Va.-The Riverside and Columbus, Ga. The Hamburger Dan River Mills have awarded conerator set and switchboard.

> ors in Columbus and Mitcheline quilts, the product of the Swift Man-

> Fork Shoals, S. C.-Work has begun upon the dam, of the Katrine Mfg. Co., which was washed away some time ago. The mill which is idle does not expect to resume operations before January of next year.

> Eufaula, Ala.—The Cowikee Mills are throwing out old picking machinery, slubbers and 8,000 spindles and replacing them with new machinery. The equipment will not be increased as it is entirely replacement work.

Whitmire, on July 1st paid the usual here will soon be filled up with machinery, as two car loads have already arrived. A force of men are warehouse which will be built at

> Raleigh, N. C.—The Raleigh oustom Shirt Manufacturing Company mentioned some time ago as proposed, has been incorporated by E. C. Hillyer, F. B. Arendell, C. R. Towles, and others. The capital stock is given at \$50,000.

> Montgomery, Ala.—A new charter has been issued to the Montgomery Cotton Mills, the capital stock being \$100,000. The following officers have been elected: Horace Stringfallow, president, and W. B. Tanner, secretary and treasurer.

will consist of 7,500 producing spindles and 3,500 twister spindles. mill will be operated on 60's to 80's two-ply knitting and mercerizing

Wellford, S. C .-- The Tucapau Mills will add new eletrical equip-ment to their plant which includes the following: one 900 kv-a. generator, one 15 kw. exciter and three are installing 1,440 additional spin- 900 kv-a. and three 750 kv-a. transformers and switchboard. The Geneval Electrical Company will furnish this equipment.

have completed the installation of 5,000 additional spindles which were purchased from the Whitin Machine Works. They now have 54,624 spin-

Montgomery, Ala.-The incopora tion of the Montgomery Cotton Mills mentioned last week makes change of any nature other than the incorporation of the mills which have heretofore not been a corpora-

Alta Vista, Va.-The Alta Vista Cotton Mills have produced their first yard of cloth-a piece of lawn. Just thirteen months' elapsed between the time of the retween the time of the re- McKinney, Texas. — The Texas organization of the company and the Cotton Mills Company, recently retime the first yard of finished goods was produced.

Longview, Tex .- The Longview Mattress Company, which was recently incorporated by M. H. Bivins give them approximately 10,304 and others, with a capital stock of spindles and 324 leoms. Details of incorporated by M. H. Bivins \$120,000, has not yet elected officers. The building is completed. Addi- determined. tonal machinery, including a boiler and engine, will be installed.

Eatonton, Ga .- The Imperial Cotcontemplating an increase in their equipment, will add about 700 spindles and 200 looms, which will practically double the size of their pres-Rockwell, N. C .- The cotton mill ent plant. Contracts for the new machinery have been awarded.

Greensboro, Ga.—The Mary-Lelia laying the foundation for a large Cotton Mills will add 6,000 spindles and 150 looms. A weave room will be built to hold both the old and new looms and the new carding and spinning will be placed in the old building. Contract for machinery will be placed at an early date.

> stall machinery for the bleaching of for the bleach that the reported that the textiles. It is equipment will cost \$15,000. Lowell Company was reported some time ago as planning to establish a bleachery at St. Louis.

Hickory, N. C .- The Ivey Mill Chapel Hill, N. C.—The addition to now changing on coarse work. the Durham Mills No. 4 at this place mill ever since it started has mill ever since it started has been running on fine work. The numbers have been about 40 warp and 50 filling but they are now changing on 20 warp and 24 filling. It will take about 60 days to get all the work changed.

The company has been getting

Atlanta, Ga.-An involuntary petition has been filed against the Crown

Fries, Va.—The Washington Mills Supply Co., \$3,941; Lester Book and ave completed the installation of Stationery Co., \$153, and the R. O. 000 additional spindles which were Campbell Co., \$88. The value of the stock and plant is placed at \$10,000. C. G. Lippold was appointed receiver under gond of \$5,000.

> Gastonia, N. C. — The Armstrong Cotton Mills, which were recently organized at this place and who applied for a charter last week, have received articles of incorporation the Secretary of State. The authorized capital stock of the new company is \$200,000, of which \$51,000 has been subscribed by C. B. Armstrong, A. G. Meyers, R. G. Rankin and others.

> ported as increasing their capital stock by \$30,000, will also issue bonds to the amount of \$75,000. It is the intention of the company to double their present equipment, which will the enlargements have not yet been

Columbia, S. C .- The secretary state has issued a commission to the Palmetto Silk Hosiery company of ton Mills, recently referred to as Columbia with a capital of \$25,000. The company proposes to erect a hosiery mill in Columbia and do a general silk hose manufacturing bus-iness. The petitioners are Ralph K Shaw and Frank Arnett of Rhode Island and Hunter A. Gibbes and W. Anderson Clarkson of Columbia.

Shelby, N. C .- The Ella Manufacturing Co., which was recently re-ported as planning to double their capacity, has let the contract for the addition to Slater and Henry, of Greenville, S. C. The contractors begin work about August first and it is expected that the work will St. Louis, Mo.—The Lowell (Mass.) be completed in sixty days. The Bleachery has leased a building in new building will be 80x220 feet, set this city with a floor space of 55,000 parallel with the present building square feet on one floor and will in—and connected by a cross section 32x40 feet.

Twenty-five more tenant houses will be erected. The contract for these dwellings has not yet been let is said that the total cost for the enlargement to the plant will be about \$100,000.

Danville, Va.—The Danville Knit-ting Mills have under construction a wing to their building, measuring 95x100 feet. This new wing will be used partly as a finishing room and partly as a stock room, and it is expected that the work will be completed in three months' time.

The cost of the improvement some large orders for cicth recent- stated at \$12,000, but the cost of installing the machinery and equip-ment will bring the total coast to a higher figure.

The addition will increase the out-Manufacturing Co., makers of mat- put of the mill and during the com-tresses, by the following petitioning ing months the operating force of creditors: Cotton States Belting and the mill will be increased about 25

Godfrey Pettit, Jr., is drawing the plans for the new building, which will be of mill construction, three stories high and equipped throughout with a modern sprinkling system for fire protection.

Spartanburg, S. C. — It is not thought that the cotton mills in the county will close down this summer for a period of ten days or two weeks as was the case last summer and the previous summer. All of the mills are now running on full time and

there is a good demand for cloth.

Last summer the cloth market was very dull and the mills in order to curtail the output gave their operatives a vacation of ten days or two weeks. The mills are not losing any money this summer, it is said, and will run throughout the entire summer without a shutdown.

Little Rock, Ark.—It is locally reported that the Board of Trade is now investigating a proposition received from mill owners in Virginia move a knitting mill to Little Rock. The president of the company writes that it has orders on its books for more than \$250,000 worth of goods but needing 500 opeatives, they can secure about 100 where they are located. The mill is turning out but one-quarter of its capacity, and when running full time with full force, its output would be \$700,000 annually. The president states that the company has machinery to make any style of men's and boys' underwear and sweater coats.

Ridgedale, Tenn.—The merceriz-ing company, recently mentioned as being proposed at this place has effected permanent organization with a capital stock of not less than \$60,-900 or more than \$75,000. It is probable that the officers will be elected as follows: W. Lane Verlenden, of Darby, Pa., president; Alfred H. Darby, Pa., president; Alfred H. Thatcher, Piedmont, Ala., secretary and treasurer. A plant for mercerized cotton products will be erected and the contract for the warp mercerizing machinery has already been awarded to the Butterworth Co., of Philadelphia, Pa. The architect-engineers in charge of the con-struction will be Lockwood, Greene & Co., of Boston, Mass.

Hendersonville, N. C.-R. P. Freeze will begin operations at the new Freeze Hosiery Mill in this city this week. Machinists are now making tests of the machinery and by the end of the week operatives will be actively engaged. For a few weeks actively engaged. For a few weeks 30 operatives will be required and the mill capacity will by 150 dozen pieces per day. Mr. Freeze stated recently that within a few weeks 75 operatives will be employed and the capacity of the mill will be increased to 400 dozen per day. The mill ed to 400 dozen per day. The mill



enemies out of lifelong friends-if it's a political contest.

THE TURBO HUMIDIFIER

has met competition in but one way; the only way, in fact. It has delivered the goods, and where it hasn't, and I admit that there were things at first that we did not get on to, our education did not cost our customers a penny.

The great big business world is ruthless in its judgments of service rendered, and unless the service is rendered somebody loses.

Get Turbofied-and satisfied.

THE G. M. PARKS CO. FITCHBURG, MASS.

thern Office, No. 1 Trust Bldg., Charlotte, N. C. B. S. COTTRELL, M.

The Byrd Knotter Price \$20.00 Simple of Operation **DurabilityGuaranteed** Small Repair Cost Byrd Manufacturing Co. DURHAM, N. C.

will run on a small scale until the operatives become experienced in the work and until preparations can be made for more extensive operations. Mr. Freeze stated that he has leased two storerooms in the park near the mill and will, in August open a general merchanidise business and make a specialty of handling wood and tanbark.

Reorganization of Parker Cotton Mills.

The mills controlled by the Parker Cotton Mill Co. have been reorganized into three corporations instead of sixteen as formerly. The companies are as follows

Monaghan Mills, capital \$2,500,000. with 99,000 spindles and 2,426 looms, including what has been Monaghan Mills at Greenville, Senzea Cotton Seneca, Walhalla Cotton Mills, at Walhalla.

Hampton Cotton Mill Co., Columbia, S. C., capital \$7,000,000, with 274,000 spindles and 6,910 looms, including what has formerly been the Olympia, Granby, Richland and Capital City Mills at Columbia, Pine Creek Mills, Beaver Dam Mills at Elgefield and Wylie Mills at Chester.

Victor Mfg. Co., Greer, S. C., capital \$3,500,000, with 141,000 spindles and 3,289 looms, including Victor and Greer Mfg. Co. at Greer, Apa-lache Mills at Arlington, Wallace Mills at Jonesville and Ottaray Mills at Union, S. C.

Sale of Trion Manufacturing Co.

Capt. Chas. A. Lyerly, of Chattanooga, Tenn., representing the creditors, bought in a portion of the assets of the Trion (Ga.) Manufacturing Company, at the bankruptcy sale on June 30th. The purchase price was six hundred thousand dollars.

Included in the purchase price were the mill buildings and machinery, the Inn, the tenant houses and all of the real estate owned by the company. The remainder of the assets of the Trion Co., about \$200,000 worth of personal property, will be sold under order of the court within the next few weeks.

The sale of June 30th will come

before the referee for confirmation on July eighth.

As soon as the sale is confirmed. the mills will be taken over and operated by the new company, and until that time they will continue to be operated by the trustee.

After the sale of the remainder of the assets, the assets will have been converted into cash in the hands of the trustee, for the purpose of paying expenses and a dividend to the creditors.

It is very likely that the reorganized mill will be managed Benj. Riegle president of the Ware Shoals (S. C.) Mfg. Co. Details of reorganization will be announced at

COMPANY AMERICAN MOISTENING

BOSTON, MASSACHUSETTS WILLIAM FIRTH President

FRANK B. COMINS, Vice-Pres. & Treas. MOISTENING

THE ONLY PERFECT SYSTEM OF AIR COMINS SECTIONAL HUMIDIFIER

JOHN HILL Southern Representative, Third Nat. Bank Building, ATLANTA' GEORGIA

Cotton Goods Report

New York. - Although the business of the past week has been interrupted by a holiday, buyers have been in the market and shown considerable interest in covering were compiled by the New York their requirements on staple lines. cotton exchange:

The feeling throughout the trade is that, aside from the fine goods trade, business has been very satisfactory and conditions are showing an improvement.

The business being done on the bleached goods is below normal for the present period of the year, but prices remain very firm partly due to the strength of the gray goods market, and in part to the well sold up conditions of the mill making this class of fabrics. Sellers of bleached goods expect increased orders when buyers are in town during the next two weeks.

coming in for a larger share of at-Stock at interior tention, as large distributors of excess of Sept. 1 43,325 62,758 these goods are gaining more confi. these goods are gaining more confidence in current price levels being Brought into sight fully maintained for some time to for season 1

Print cloths, convertibles, and other goods suitable for the manufacturing trade and a good many well known brands of cotton goods are sold for some distance ahead and the mills ore turning most of their attention to meeting their contracts as they fall due.

A shortage of production due to lack of operatives is reported from many mills but is not unusual at this season of the year.

The break caused by the holiday caused a small week of trading in the Fall River print cloth market last week. Notwithstanding the inactivity, prices held firm. As a rule buyers did not hesitate about paying the full quoted prices and those who endeavored to obtain concessions were not successful, as manufacturers held firm all along the line.

There was in evidence a moderate demand for narrow styles, printers especially being in the market for these goods. There was only light demand for the wide goods of all kinds.

Current quotation on cotton goods
in New York
Prt clths, 28-in, std 3 15-16 -
28-in; 46x00s 3 3-4
4-yd, 80x40 6 7-8 —
38 1-2 in, std 5 1-8 —
Gray goods, 39-in, 68x72 5 1-2 —
Brown drills, std 8
Sheetings, so, std 7 3-4 to 8
3-yard 7
4-yd, 56x60 6 1-4 to 6 1-2
Denims, 9-oz 13 1-3 to 16 1-2
Stark, 8-oz. duck 12 1-4
Hartford, 11-oz. 40-
in. duck14 1-2 —
Tickings, 8-0z
Std fancy prints 5 1-4 -
Standard ginghams . 6 1-4 -
Fine dress ging 7 to 9 1-4
1714 O balan 1 1 11 1 1 1

Weekly Cotton Statistics.

New York, July 5 .- The following statistics on the movement of cotton for the week ending Friday, July 5.

WEI	EKLY	MOV	EME	NT

	1912	1911
Port receipts Overland to mills	17,282	8,685
and Canada Southern mill tak-	4,573	2,741
ings (estim.) Loss of stock at in-	25,000	15,000
terior towns	10,741	10,024
Brought into sight		

16,402 TOTAL CROP MOVEMENT.

Port receipts..... 11,753,535 8,516,715 Overland to mills and Canada 889,884 952,576

Southern mill tak-

for season 15,391.744 11,682,049

Big Warehouse for Savannah.

A mammoth cotton warehouse with a capacity of at least 100,000 of cotton will erected in Savannah within a year.

The National Warehouse Co. has decided to open a branch office in Savannah and will erect the warehouse for the purpose of storing the Sea Island cotton crop of Georgia, Florida and South Carolina. Short staple cotton will also be stored in the warehouse.

Following a two-days' conference with the officers and directors of the Union Sea Island Cotton Company T. W. Carter announced that for the present the Union Sea Island Cotton Company would co-operate with his company and that within a year the Union Sea Island Cotton Co. will probably become a part of the National Warehouse

Company.

The office of the national company will be located in the office with the Sea Island Company, and the businesses of both concerns will be transacted from there. Work of winding up the business of the Union Sea Island Cotton Co. will begin at once, and there is a possibility of the company becoming a part of the larger company this sea-

Declined With Thanks

Reports had come to the president of a famous Eastern college that one of the students was drinkmore than was good for him. Meeting the offender on the campus one morning the head of the university stopped him and said se-

Standard ginghams . 6 1-4 "Young man, do you drink?"

Standard ginghams . 6 1-4 "Well—why"—the student hesitaFine dress ging.... 7 to 9 1-4 ted—"not so early in the morning.

Kid. fin. cambrics . . 4 1-4to 4 1-2 thank you, Doctor."

GRINNELL WILLIS & COMPANY

44-46 Leonard Street, New York

SELLING AGENTS

BROWN AND BLEACHED COTTON GOODS FOR HOME EXPORT MARKETS

RICHARD A. BLYTHE

Cotton Yarns Mercerized and Natural

ALL NUMBERS

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PHILADELPHIA. PA.

THE NORTH CAROLINA

College of Agriculture and Mechanic Arts

THE STATE'S INDUSTRIAL COLLEGE

Four-year courses in Agriculture; in Civil, Electrical, and Mechanical Engineering; in Chemistry; in Cotton Manufacturing and Dveing. Two-year courses in Mechanic Arts and in Textile Art. One-year and Two-year courses in Agriculture. These courses are both practical and scientific. Examinations for admission are held by the County Superintendent at all county seats on July 11th.

For Catalog address

THE REGISTRAR. West Raleigh, N. C.

The Desirability of the South

as the place to manufacture cotton goods is illustrated in the increase of 67% quoted by census department. We can offer attractive situations for those desiring to enter this field.

J. A. PRIDE

General Industrial Agent, Seaboard Air Line Railway NORFOLK, VIRGINIA.

The Yarn Market

Philadelphia, Pa.—Trading in the yarn market was dull last week. Dealers reported that they were doing very fittle actual business though inquiries for future business were fair. Generally deliveries on old contracts were poor.

Prices on combed yarns are strong, but they vary according to how badly the spinner wants to sell. Some Southern spinners are reported as willing to sall coarse numbers of single frame spun cones on the basis of 24 1-2 cents for 10's, while others asked 25 1-2.

There was some demand for mercerized yarns in 50-2 to 70-2 for 10s mercerized hosiery, but the sales did 12s not include any large quantities. The 14s sales ranged from a single case to 16s 2,500 or 3,000 pounds.

Owing to the lack of demand, 24s prices on weaving yarns were very 26s weak. Some dealers say that they 30s are now beginning to pile up con-36s signed yarns. Spinners who have 40s nearly filled old contracts are hold-50s ing out for prices which they cannot obtain at present, and unless a Southern Frame Spun Yarn on Cones demand unexpectedly develops within the next month, the pressure of consigned yarns will break the market and send prices as much below real values as they were above a short time ago.

There was some buyers for August deliveries during the week, but the houses making the sales were the ones who could meet the buyers' ideas of prices. Sale of 30-2 warps were made at 24 and 24 1-2 cents, 20-2 warps and skeins sold for 20 cents, 14-1 warps for 17 3-4 cents. 20-1 warps, 10 and 19 1-2 cents. These prices are less than spinners, who sell through various will take and it was thought in the market that the sales were placed with spinners who sell exclusively through a single house.

DATE OF STREET		Ø100	8 63	 			1	7		-		
10s							 1	7		-	-17	1-2
12s							1	7	1-	2	-18	
148	* *						 1	8		-	-18	1-2
16s							 1	9		-		
								9		-	-19	1-2
26s							2	4			-21	1-2
30s							2	4	1-	2-		
					22							

	SMITHERIT	LANGER IN SOUTHING	
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Two-Pty Carded Peeler in Skeins: 24 1-2

228		25 —
248		25 1-2-26
268		26 —26 1
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36s	*************	33 —34
40s	************	35 —36
50s		43 -44
60s	*************	49 —50

. !	Single	Combed	Peeler	Skeins:
20s			27	-28
248			28	-29
30s			32	-33
40s			40	41
50s			47	50
60s			54	-57
T	wo-Pl	y Combe	l Peele	Skein

		NO THE REAL PROPERTY.		LESS DE BRADE DE LES	
T	wo-	Ply	Combed	Peeler	Skein:
20s				28	-28
248				30	-31
30s				33	-34
					-45
50s				50	-54
60s	***			57	60
70s				65	69

A. M. Law & Co. F. C. Abbott & Co.

Spartanburg, S. C. **BROKERS**

Dealers in Mill Stocks and other Southern Securities

South Carolina and Georgi Mill Stocks. Bid Asked Abbeville Cot. Mills, S. C. ... 162 100 Augusta Factory, Ga. . . 43 Avondale Mills, Ala. . . 115 120 130 Belton Cotton Mills, S. C. 110 Brandon Mills, S. C. . . Brogon Mills 93 Calhoun Mills, S. C. Capital Cot. Mills, S. C. Chimale Mills, S. C. -61

Comprehensive Comments of Comments		(0.00)
Chiquola Mills, S. C		170
Clifton Mfg. Co., S. C	85	90
Clifton Mfg. Co., S. C., p.	98	100
Clinton Cot. Mills, S. C		125
Courtenay Mfg. Co., S. C.		90
Columbus Mfg. Co., Ga.		400
Cox Mfg. Co., S. C		70
D. E. Converse Co., S. C.	75	
Dallas Mfg, Co., Ala		110
Darlington Mf. Co., S. C.		75
Drayton Mills, S. C		90
Eagle & Phenix M, Ga.	106	
Easley Cot. Mills, S. C	165	
Enoree Mfg. Co., S. C	25	
Enoree Mfg. Co., S. C., pf		100
Enterprise Mfg. Co., Ga.	65	70
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Fairfield Cot. Mills, S. C.		N

72

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Oconee Mills, S. C., com. ... 100 Woodside C. Mills, S. C. ... Oconee Mills, S. C., pfd ... 100&int Woodruf C. Mills, S. C. 100

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Gaffney Mfg. Co., S. C.	
Gainesville C. M., Ga	
Glenwood Mills, S. C	
Glenn-Lowry Mfg. Co.,	
S. C	101
Glenn-Lowry Mfg. Co.,	
· S. C., pfd	
Gluck Mills, S. C	80
Granby C. Mills, S. C.	
Granby C. M., S. C., pfd	
Graniteville Mfg. Co., S.	
Greenwood C. M., S. C.	
Greenwood G. M., S. C.	
Grendel Mills, S. C	
Hamrick Mills, S. C	
Hartsville C. M., S. C	170
Inman Milla C C	

THE BOTTERD OF THE ST. LA.	1.40	
Inman Mills, S. C		170
Inman Mills, S. C., pfd.		100
Jackson Mills, S. C		95
King, Jno. P. Mfg. Co.,		
Ga	85	
Lancaster C. M., S. C.	130	
Lancaster C. M., S. C., pd	98	
Langley Mfg. Co., S. C.	* * *	75
Laurens Cot. Mills, S. C.		120
Timesters C Mills C C		
Limestone C. Mills, S. C.		150
Lockhart Mills, S. C		70
Loray Mills, N. C., com.	10	
Loray Mills, N. C. 1st p		95
Marlboro Mills, S. C	60	75
Mills Mfg. Co., S. C	110	
Mollohon Mfg. Co., S. C.		105
Monarch C. Mills, S. C	110	
Monaghan Mills, S. C		
37 1 0 34111 0 0		

	Mollohon Mig. Co., S. C.		105
	Monarch C. Mills, S. C	110	
	Monaghan Mills, S. C		
	Newberry C. Mills, S. C.		140
	Ninety Six Mills, S. C.	135	140
2	Norris C. Mills, S. C	105	115
	Olympia, M., S. C., 1st p		
	Orangeburg Mfg. Co., S.		
	C., pfd		90
	Orr Cot. Mills, S. C	91	
	Ollanay Mille C. C.		400

Charlotte, N. C. **BROKERS**

Southern Mill Stecks, Bank Stocks N. C. State Bonds, N. C. Railroad Stock and Other High

Grade Securities

North Carolina Mill	Stock	18.
	Bid.	Asked
Arista	80	
Brookside		112
Cabarrus	130	
Cannon	. 120	150
Chadwick-Hoskins		95
Do. Pref		101
Clara		110
Cliffside	190	
Cora		130
Efird	***	125
Erwin	. 120	126
Erwin Pref	102	102
Gaston		90
Gibson	98	100
Gray		125
Florence		126
Highland Park		200
do. pref		101,
Henrietta Mills	. 150	
Kesler	. 125	140
do. pref		91
Lowell		181
Lumberton		251
Mooresville	. 142	150
Modena		
Patterson	. 118	126
Roanoke	. 155	161
Statesville Cot. Mill .		96
Trenton		120
Tuscarora		110
Washington		30
do. pref		
Williamson		125
Wiscassett		115
Wiscassett		115
Woodlawn	• • • • • • • • • • • • • • • • • • • •	
Provided Man Co. C. C.	-	
Pacolet Mfg. Co., S. C		
Pacolet Mfg. Co., pfd		100&11

Wiscassett	110	115
Woodlawn		• • •
Pacolet Mfg. Co., S. C	75	
Pacolet Mfg. Co., pfd	91000000 WK 33	00∈
Pelzer Mfg. Co., S. C		135
Parker Cotton Mills Co.,		100
preferred	62	65
Parker Cotton Mills Co.,		
common	20	224
Pickens C. Mills, S. C	94	~~ 7
Parker Cotton Mills Co		
guaranteed	100 4	00∈
Piedmont Mfg. Co., S. C.		160
Poe, F. W. Mfg. Co.,		100
8. C	105	115
Richland C. Mills, S. C.,		
pfd		
Riverside Mills, S. C		25
Roanoke Mills, N. C	140	160
Saxon Mills, S. C	120	
Sibley Mfg. Co., Ga	62	64
Spartan Mills, S. C		110
Toxaway Mills, S. C		72
Spartan Mills, S. C Toxaway Mills, S. C Tucapau Mills, S. C.	. 20	
Union-Bufallo Mill, S. C.		
Union-Buffalo M., S. C.		
ist preferred	50	55
Union-Buffalo M., S. C.		
2nd preferred Victor Mfg. Co., S. C		10
Victor Mfg. Co., S. C		
Ware Shoals	70	80
Warren Mig. Co. S. C.	85	
Warren Mfg. Co., pfd	-100	
Watts Mills, S. C		70
C		80
Whitney Mfg. Co., S. C.		119
Wiscassett C. Mills, N. C.		
Woodside C. Mills, S. C.		
Woodpuf C Mills C C	- 100	

Personal Items

H. D. Agnew is manager and Supt of the Canebrake Cotton Mills, Ellawhite, Ala,

A. O. Norris has resigned as over-seer of carding at the Minneola Mills, Gibsonville, N. C.

Austin Waters has been promoted from second hand to overseer of spinning at the Hope Mills, N. C.

J. S. Lockwood has been promoted from second hand to overseer carding at Hope Mills, N. C.

Gus Fowler has resigned as overseer of weaving at Highland Park Mill No. 3, Charlotte, N. C.

H. J. Forsyth has resigned as Supt. of the Avondale Mills, Birmingham, Ala.

Alex. Davies has accepted the position of Supt. of the Avondale Mills. Birmingham, Ala.

H. B. Crouch has been promoted to second hand in No. 1 card room at Dan River Mills, Danville, Va.

ond hand in No. 1 card room of Dan River Mills, Danville, Va.

E. N. Whitfield of New Holland. Ga., has accepted a position with the Dan River Mills, Danville, Va.

W. W. Ware of Rome, Ga., has accepted the position of overseer of spinning at the Edenton (N. C.) Cotton Mills.

W. B. Pratt Changes Position.

W. B. Pratt, who has for the past eight years been with W. H. Bigelow the well-known card clothing agent of Charlotte, has resigned his position to accept one with Montgomery & Crawford of Spartanburg, S. C. Mr. Pratt is one of the most popular men who has traveled this section and we wish him much success in his new work.

Welfare Work at Duke, N. C.

The Erwin Cotton Mills Co. erecting a new lyceum building to be used for entertainments, moving pictures, a skating rink and other amusements, for the recreation of the mill operatives. It is contemplated to give the operatives high-class entertainment at minimum cost and this to protect them from the influence of undesirable shows.

Government to Spin and Weave.

The Department of Agriculture at Washington, D. C., is preparing to spin and weave cotton in a scientific way. The work will be in the nature of an experiment.

Spindles and looms will be installed by the department in a large new building now being erected on Fourteenth street where the work will take place.

All the different cotton tests of the department will also be made in that building.

Fred White's Father Dead.

Fred H. White, Southern representative of the Stafford Company, has the sympathy of his many friends in the loss of his father, Mr. White, which occurred at Saco, Me., on June 30th.

Accused of Ugly Crime.

Two men named Miller and Baker, operatives at the Manchester Mills. Rock Hill, S. C., and a woman named Cranford were arrested last a very ugly charge and given a preliminary hearing in the Magistrate's Court.

Miller, it is charged, four young girls, to the Cranford woman's house and there had Baker, who does some photographing, make make a number of pictures in the nude, claiming that they were for a moving picture show. The girls are 8 to 17 years of age.

Miller was bound over to court. Baker was released under \$200 bond and the woman on her recogniz-

Fires Without Damage.

Among the numerous cotton mill Sam Hudson has resigned as sec- fires which are put out so promptly by automatic sprinklers as to do away with damage and claim for insurance, two recent ones in Green- cotton.-Manufacturers' Record.

ville, S. C., and Greenwood, S. C., might be mentioned. occurred in the dust room of a spinsprinklers and with such slight loss as to occasion no claim for damages. by the opening of one sprinkler and as an expression of its apprecia

Million Yards Cotton Duck For Automobile Tires

One million yards of high-grade duck, to be made from Sea Island and Egyptian cotton, has recently been sold by a Georgia cotton mill to a manufacturer of automobile tires. The quality of this material is of the highest grade, used only in the larger tires, the lower grade of goods being available for the smaller tires. One million yards of cotton duck, one vard wide, is a pretty big order to go from one mill to one tire manufacturer. It illustrates, however, the ever-broadening market for cotton and the reason why a big cotton crop has been so promptly absorbed. Every year sees new uses for the South's cotton. Not only is it being used in the manufacture of tires; it is likewise used in the manufacture of automobile tops: and the wider the use of automobiles the greater will be the demand for

Big Pienie At Tallassee.

The Tallassee Falls Manufacturning company and was put out so ing Company, Tallassee Ala., which promptly by four Grinnell automatic operates two large cotton mills at that place, employing something over a thousand people, gave an A second fire occurred in a picker elaborate picnic to its employees in trunk and was immediately put out celebration of the Fourth of July, ation of the valuable services of the loyal employees.

The day was spent in a most happy manner by the three thousand people who participated in the amusements of the day, which included a number of outside parties and farmers, everybody having been invited to take part.

A clay pigeon shoot was held in the early morning and numerous stunts were pulled off during the day, including the old men's race, barrel race, guinea race, catching the greasy pig, money scramble for the boys, climbing the greasy pole, and various other events.

A string band was on the ground all day, and those who wished to dance were allowed that privilege.

In the afternoon two baseball games were played between Tallassee and a team from Montgomery Tallasse taking both games.

After the picnic was over, a of food remain untouched, which was distributed among the employes

of the company.

This picnic was said to be the most successful event for Tallassee in many years.

When the Reverend John McNeil

was holding revival services Cardiff a young man one night, thinking to perplex the preacher, sent up a note to the platform with the request that the following question might be publicly answered:

"Dear Mr. McNeil-If your are seeking to enlighten young mer kindly tell me who was Cain's wife.' Mr. McNeil read the note, and

then, amid breathless silence, said: "I love young men-inquirers for truth especially-and should like to give this young man a word of ad-It is this: Don't lose soul's salvation looking after other people's wives." Ex.

Every Raw Hide Picker

We make bears our Trade Mark.

We have so much confidence in our raw hide loom pickers that we stamp our trademark in the hide of each picker so that it can be easily distinguished even when worn out. We spare no effort to improve the qualiy of our product and intend that our trademark on a raw hide loom picker shall be the symbol of the best it is possible to produce.

You risk nothing in using Garland Pickers. Garland Mfg. Co., Saco, Maine



Bradford Soluble Grease



NEXCELLED as a softening agent in the finishing of Cotton Fabric. Used extensively both by finishers of colored goods and bleachers in finish of white fabrics. Any degree of "softnesss" may be obtained by the proper use of this article. A neutral

Write for recipe for finishing.

ARABOL MANUFACTURING CO.

100 William Street, New York

CAMERON MacRAE Southern Sales Agent CHARLOT E, N. C.

This Was a Fright.

"Stop a minute!" shouted one man to another. "Answer this: 'Wa woman like an umbrella?"

Because she often has to be shut up-

'Wrong."

Because she stands in the hall-"

Nothing like it."

Because nobody ever gets the right kind of-

'Absolutely off it!"

Because she fades with age, eh?" "Don't be silly. Can't you guess?"
"Oh—because she's a good thing to

"Hang it! I've missed my train. A

woman is not like an umbrella. Get out of my way-I-"
"Give it up? A woman is like an

umbrella because she's accustomed to reign. See? Imagine not being able to answer such a simple—"
Bang! Thud! Biff!—Ex.

Want Department

Want Advertisements

If you are needing men for any position or have second hand machinery, etc., to sell, the want col-umns of the Southern Textile Bulletin afford a good medium for advertising the fact.

Advertisements placed with us

reach all the mills.

Employment Bureau.

The Employment Bureau is a feature of the Southern Textile Bulletin and we have better facilities for placing men in Southern milis than any other journal.

The cost of joining our employment bureau is only \$1.00 and there is no other cost unless a position ing answers to YZZ and No. 1018 is secured, in which case a reason- whose advertisements appear two able fee is charged.

bureau connected with the Southern textile industry.

Weavers Wanted.

Wanted at once denim weavers. Good prices and steady work. None but first-class weavers need apply. Hamilton Carhartt Cotton Mill, Rock Hill, S. C.

Operatives Wanted.

Want at once Cotton Mill help of all kind, especially Frame nands. New mill, just starting up. Write or apply in person to Mande ille Mills, Carrollton, Ga.

Weavers Wanted.

WANT 15 or 20 good Draper weavers. Good prices paid to good weavers. Apply in person or correspond with R. A. Sims, overseer of weaving, or A. T. Browne, Supt., Warren Mfg. Co., Warrenville, S. C.

BEAMERS WANTED.

D AT ONCE, WORK, 10 S NIGHT WORK, 10 SHORT CHAIN BEAMERS, PAY \$2.40 PER NIGHT. NONE FIRST CLASS BEA FIRST CLASS BEAMERS
NEED APPLY, ADDRESS,
A. C. WEST,
OVERSEER BEAMING,
LOCKE MILLS,
CONCORD, N. C.

WANT position as superintendent of small mill, not over 8,000 spindle son hosiery yarn, or overseer of large card room. Good references. Address No. 164

Weavers and Fixers Wanted.

WANTED—At once, a few good Draper and Crompton Loom Weavers on Chambrays and Ginghams. Good weavers earn with us from \$8.00 to \$12.00 per week. Can also use for our new loom addition some first class Draper and Satfford Loom Fix-Write or apply in person at

DAN RIVER COTTON MILLS, Danville, Va.

Many Answers.

We have been kept busy forwardwhose advertisements appear two We do not guarantee to place every man who joins our employ- of answers but all have been forment bureau, but we do give them warded promptly.—Southern Texthe best service of any employment tile Bulletin. weeks ago. There has been a flood tile Bulletin.

> WANT position as overseer of spinning, twisting, or in winding room years experience in spinning and twisting. Familiar with spooling, reeling and winding. Will not consider less than \$2.00 per day. Age 32. Married. Address No. 165 .

WANT position as overseer of carding. Have had 21 years experi-ence as overseer of carding in some of the best mills in the South Can furnish the best of references.. Address No. 167.

WANT position as mechanic or electrician. Have had practical experience in machine shop and electrical work. Can furnish good references. Would not consider less than \$2 per day. Address No. 168.

WANT position as overseer of spinning. Have had long experience in some of the best mills of the South Now employed. Will not accept less than \$3.50. Address No. 169.

WANT position as overseer of carding. 36 years old, married an can furnish best of references. Now employed in large mill, but wish to change. Address No. 170.

WANT position as superintendent Now employed in that capacity, but wish to change. Am experienced and well recommended Address No. 171.

WANT position as overseer of weav-ing. Experienced on duck, drills, sheetings and osnaburgs. employed, but can change on short notice. Will not accept less than \$3.50. Address No. 172.

WANT position as superintendent or overseer of carding and spinning at not less than \$4.00. Now employed in a large mill, but wish to change. Gdress No. 174. Good references. Ad-

WANT position as overseer of card-35 years old, married. Good habits, good references and long experience. Now employed but want larger position. Competent for any size room. Address No.

WANT position as overseer of carding in large mill or carder and spinner in small mill. best of references and am strictly sober, with 14 years experience as carder. Address No. 175.

position as superintendent of white or colored goods mill in N. C., S. C., or Ga. Long ex-perience as superintendent and fine references. Also expert designer. Address No. 176.

WANT position as overseer of carding. Have had 24 years' experience in cotton mill work and am good manager of help. 32 years Married. Good recommen dations. Now employed but can change on short notice. Address

WANT position as overseer of card-Now employed but want larger room. Long experience and can furnish best of references. Address No. 178.

WANT position as superintendent or overseer of spinning in large mill. Now employed but prefer to change. Long experience and good references. Address No. 179.

WANTED position as overseer of weaving in a medium or size room. Am of good character and strictly temperate. Experienced on Draper or plain looms. Am now employed, but want to change. Address No. 180.

WANT position as superintendent or manager. Now employed but wish to change. Can furnish good references, both as to character and ability. No. 181.

WANT position as overseer of carding. 17 years in card room. 7 years as overseer. Can furnish good references. Address No. 182

WANT position as superintendent of yarn mill or carder and spinner. 20 years experience as overseer and superintendent. Good references. Address No. 183.

WANT position as overseer of spinning. Eight years experience as overseer. Age 31. Married. Good references. Address No. 184.

position as overseer weaving. Married. Age 36. 12 years experience in mill. 4 years as overseer and second hand. Sobe and good manager of help. look after both quality and cost. Now employed. Good references. Address No. 185.

PATENTS

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Send your business direct to Wash ington. Saves time and insure better service.

Personal Attention Guaranteed 30 Years Active Service

SIGGERS & SIGGERS Patent Lawyers Suite 34 N. U. Bldg. Washington, D.C.

WANT position as superintendent. Had 7 years experience as superintendent and overseer in good mills. Age 33. Marri ences. No. 186. Married. Good refer-

WANT position as overseer of weaving and cloth room. Experienced on plain and fancy white and colored goods. Now employed but want larger job. Good references will be furnished. Address No.

WANT position as overseer of cloth room. Have had wide experience and am giving satisfaction on present job but want larger position. Age 32. Married. Good references. Address No. 188.

WANT position as carder and spinner on night or day run.. Have filled present position as carder and spinner for five years. Can furnish good references and quality and quantity. Address No.

WANT position as overseer of carding. Have had long experience and am now employed, but prefer to change. Can furnish good ref-erences both for ability and character. Address No. 190.

WANT position as overseer of spinning. Have had long experience and can give satisfaction. Can furnish satisfactory references. Address No. 191.

WANT position as engineer and machinist. 17 years experience and best of references. Have family of mill help. Address No. 192.

WANT position as superintendent of yarn or plain weaving mill. Now employed, but wish to change. Age Married. Good references as to character and ability, Address No. 193.

WANT position as overseer of weav-Hav had long experience on both white and colored goods and can furnish first-class references. Address No. 194.

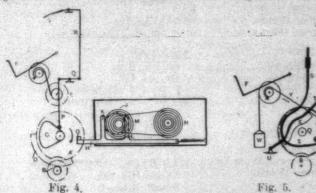
WANT position as overseer of spinning in large mill or carder and spinner in small mill. Experienced on both white and colored work and both weaving and hosiery yarns. Age 3. Married. Good references. Address No. 195.

Willows For Cotton and Cotton by mans of the segment D which Waste.

(Continued from Page 8)

pulleys and gearing. The shaft N actuates the timing motion and the the shaft M by means of cone-step the purpose of timing, the strap need to turn the feed tray slowly about only be very narrow and the indi- one quarter of a revolution.

now corres into contact with the wheel E. The wheel E is connected being driven from B by means of to the feed tray F in such a way that the tray can be sufficiently turned round to allow the whole of The shaft N that the tray shaft B drives at a constant speed the material in the tray to be prop-the motions which have been timed erly fed into the machine. The The speed of N is very much slower front part of the willow grid is fas-than the speed of B, but it does not tened to the inside of the tray so communicate its motion direct to as to prevent any material from fallany part; on the contrary, it drives ing out, and also to feed the material so gradually that the grid is not pulleys which allow a very wide damaged through any lumps which range of speeds. As there is very come suddenly into the machine little power to be transmitted, for The segment D is just long enough vidual steps may be very small, so that the wheel E is released, and that the cones do not take up so the fed tray and grid close again much room as might be expected, slowly by a mechanism which is of On the shaft of the cones-step pul- less interest, and which will be unley M is fixed a cam J which gives derstood by a mere reference to the a to-and-fro movement to the lever machine. When these movements H by means of the two arms K and are completed, then the wheel A goes I, the arm K being also kept in con- on turning until the lug G is near tact with the cam by means of a the lever H. The lever H has then spring; but this spring is simply a returned to its original position, and safety arrangement of the type A is no more in contact with wheel which we find so often in the self- B. The wheel A then turns a little acting mule. It is clear now that farther owing to its own overweight



for each revolution of the cam J the on the side of the lug G (as we have lever H makes one to-and-fro move- explained above), but it is held in ment which may be utilized for the position by the lever H until the purpose of timing. Every revolu- complete revolution of the cam M ion of the shaft M would therefore be utilized for one complete round circle of movements begins in the of the various motions required to clean one load of material. If we know the time taken for one revolution of the shaft M, we can easily calculate also the number of feeds per hour, and this multiplied by the weight of material which is cleaned each time gives us the production per hour.

On the same shaft as wheel A are fastened the cam C, and also the segment D, and as wheel A continues to revolve, the cam I lifts the lever P, which through the lever connection Q and R also lifts the door S on the top of the cylinder casing. When this delivery door is raised, then the willowed material in the machine will be allowed to escape to the outside. It is "baffled" against he hood over the delivery box, and falls on to the delivery lattice run-ning across the front of the machine, which delivers it on to the floor. After a short time the cam has turned so far as to allow the lever P to be lowered again, and the de-livery door closes gradually at the As soon as the door is same rate. closed and the levers are completely lowered it is essential that the new material be fed so as to reduce as er it would not be advisable to inmuch as possible the unproductive troduce narrow grooves in the cone cotton-opening type (Oldham wiltime of the machine. This is done step pulleys to replace the parallel low), which is often used for very Manchester, Eng.

is completed again, when a fresh same way as described above.

To prevent any unauthorized person meddling with the timing arrangements, the cones are enclosed in a box as shown in the illustration. This box may be locked, and the key should remain in the hands of the overlooker. It is then impossible for the operative to influence in any way the timing arrangements, because the lever H is controlled on both sides by the cam, by the arm K, as well as by the arm L.

Although this motion is rather simple as far as such motions gen erally are concerned it would ap pear that a simplification might easily be made, and the writer has therefore prepared a sketch, shown at Fig. 5, which dispenses with certain levers and the segment D shown in Fig. 4, and also with the cam C. The position of this modified motion would also come nearer to the centre of the frame side, thus doing away with the congestion of lever work at the outside edge, where the machan-ism is much more exposed to damage. In this mechanism the timingbox would be the same as in Feg. 4, but it might be considered whethHIGH GRADE MILL BRUSHES



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rope might be made use of, permit- ed to replace the Crighton opener ting a further reduction in the width for very dirty Indian cotton, and of the timing-box. Other simplificeven for dirty American cotton. In cations might be possible in this this machine we have the beater up-mechanism, but we shall restrict stroke as in the Buckeye opener. ourselves to the lever work itself, and the same advantages are derivit forms on the outside surface a containing about forty-eight hardenplain polished plate in which is fix- ed and tempered steel bars per foot, to prevent excessive wear of intended to slide. The stud R is of the leg G just allows the wheel A to engage freely with B. As soon, as the positive driving of the plate) begins, the stud R comes into contact with the lever s, which is depressed, thus raising the delivery door at the top of the machine to allow the willowed material to fall closed as gradually as it has been cotton can be left in the opened. About half-way down the any desired length of time, lever S should be supported in a The curling willow for m kind of movable for's so as to fix its

of the machine is closed, the howl R comes into contact with the lever T, which is fixed on the frame side at U. This lever T, on being pressed to the left, will draw the chain V in the direction of the arrow, thus raising the balance weight fibres up into small curls, W, and at the same time actuating the feed tray F. It will be seen that the shape of the lever T may be easily adapted to any speed of turning the feed tray, or the amount of time during which it is desired to keep the feed tray in feeding position, and the time of returning it into the position of rest, may also y regulated by the same The lever T might even be be easily means. partly developed into a plate as indicated in Fig 5 by λ . On this platemay be fastened, say, three pieces which might be easily adjusted to the requirements, so that the three motions might be easily regulated according to the requirements-i. e. quick or slow turning of the feed tray, long or short time of feeding longer time of feeding giving the advantage of less strain on the grids), and slow or quick return of the feed tray into the position of rest as shown in the sketch. These are. course, only the rough ou'lines of the proposal, and it would remain to be developed. At any rate, it would appear to be a simplification

steps. By this means a round leather dirty cottons, and is edmirably suitthis this machine we have the beater up-Of this, only the wheel A and the ed in both cases. The feed lattice lug G are taken over from the me- of this machine is driven intermitchanism shown in Fig. 4. In Fig 5 tently at a fixed speed. The grid is the speed wheel A is marked Q, and in three sections, the front section ed a stud R with an anti-friction the back section being somewhat coarser, while the bottom section is the surfaces on which the stud is the coarsest. The cylinder has four rows of teeth, which work against fixed in such a way that the release three rows of teeth in the cylinder cover. The production of this machine when treating Indian cotton is about 25,000 lbs. per week, according to the quality of the material. It should be noted that the feeding and delivery lattices are driven at a uni-form speed, so that the time occupied in the feed and discharge is alon the delivery lattice. The bottom ways the same. The intermittent part of the lever S is shaped in motion of the feed roilers can be adsuch a way that the delivery door is justed in a few seconds, so that the cotton can be left in the machin

The curling willow for mill puff is generally similar to the Oldham willow, with feed and delivery lattice. As soon as the bowl R has left the It is used chiefly for treating the lever S and the delivery door at the scutcher fly from the dust chamber. and the fly from other willows. In this machine the teeth are much shorter than in the ordinary willow, and they are set so near to each other as almost to touch. This near setting has the effect of curling the the time actuating which the machine has taken its It will be seen name to "curling willow." No grids the lever T may at all are used in this machine, there being only a kind of gauze netting of 12 inch width near the feed end. This gauze netting is made of wire, and its only fuction is to allow the fan to draw off the dust created in the machine. As this machine has the beater up-stroke, the gauze netting is passed by the cylinder near the end of the stroke, thus preventmg the dust from escaping.

A willow is also sometimes used for preparing of bottoms for the hard waste breaker. In that case machine is made specially strong, with a cylinder protected all round by angle-iron edges. The teeth have steel shanks and double nuts, the lags for taking the teeth being strengthened by strong plates. The material has to be taken out by hand, for which purpose the machine has to be stopped, the opened material being taken in a loose state from the grid. Then new material is placed on the grid, the grid is closed up against the cylinder, and

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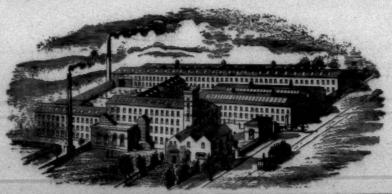
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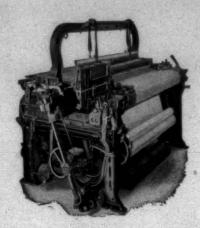
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